

Andersen

COMPLETE WINDOW UNITS



Casement Windows
—
Narroline
Double Hung Windows
—
Basement Windows



ANDERSEN FRAME CORPORATION
BAYPORT, MINNESOTA

ANDERSEN CASEMENT WINDOW

A Complete Unit Including

FRAME • SASH • HARDWARE • SCREEN • DOUBLE GLASS
WEATHER STRIPPED • FACTORY FITTED AND PRIMED

THE ANDERSEN CASEMENT is the first casement that successfully combines the weathertight advantages of wood construction with the modern, narrow-line beauty of metal. And because it harmonizes so pleasingly with almost every type of architecture, it will give added charm and value to the homes you build.

Effective weatherstripping, double glazing, and leakproof frame construction make the Andersen Casement Window exceptionally leakproof and weathertight and especially suited to the requirements of air conditioning and gas or electric heat.

Now you can have the full benefit of casement ventilation without any of the usual drawbacks. The Andersen Casement is convenient and easy to operate. It is exceptionally weathertight. It is simple in construction and easy to install. It is well proportioned and unusually attractive in appearance.

In no other casement, wood or metal, will you find all these distinctive features. It will pay you to examine them.

LEAKPROOF FRAME—Made of clear pine, with the Andersen Leakproof Locked Sill Joint, weathertight wide blind stop and mortar clinch grooves. Narrow mullion posts, transom bar and exterior moulding provide modern lines and permit large glass area. Standard design is suitable for all types of wall construction and any kind of interior and exterior wall finish.

Inside wood stops, mullion casings, and transom bar casings of pine or hardwoods are included.

IMPROVED SASH—New design prevents sticking or binding and provides two point contact. Factory fitted and glazed with either DSA or SSA labeled glass. Made of Clear Pine with exposed end wood eliminated by improved reinforced joints. Dividing or muntin bars are either solid aluminum (Style A), which are easy to clean and require no finishing, or attractively designed wood (Style W). Sash with horizontal muntin bars only or with special leaded glass panels can be furnished on order.

WEATHERTIGHT—Spring phosphor bronze weatherstrips insure a tight seal under most severe weather conditions. This improved weatherstrip is an outstanding development in casement construction.

Infiltration tests made at the University of Wisconsin show an air leakage of only 4.6 cubic feet per hour per foot of sash perimeter with a wind velocity of 15 miles per hour.

The American Society of Heating and Ventilating Engineers in a recent bulletin reports an infiltration of 16 cubic feet for the average weatherstripped double

hung window under the same conditions. Note also how the above figure compares with similar tests made on other casements as reported in the 1935 Guide of the Society.

COMPLETE HARDWARE—New . . . improved design. Easy to install. Includes:

Extension Hinges—Cadmium plated steel with brass washers.

Under Screen Sash Operators—Choice of two designs. Illustrated on page 2.

Worm Gear Type—With solid bronze housing and handle.

Bar Type—Steel, bronze finish over cadmium plating.

Locking Latch—Bronze handle. Closes sash tightly; locks it securely. Independent of screen. Automatic ejection of sash insures easy opening.

Hardware with all parts made of solid bronze can be furnished on special order.

INSIDE SCREEN—Fitted and ready to slip in place with spring bolt fasteners attached. 16 mesh gunmetal finish aluminum wire cloth. Solid aluminum frame or wood frame (Pine). Easily removed and replaced. Removal is not necessary when operating the sash.

REMOVABLE DOUBLE GLAZING—Fits on the inside of the sash. Has an aluminum frame and spring bronze seal. Glazed with DSA labeled glass. Easily and quickly slipped in place or removed from the inside. May be left in place the year round. Reduces heat loss by radiation 60 per cent. *Prevents condensation.* Particularly suited to meet the requirements of air conditioning both in winter and summer.

TREATED WOOD—All wood parts of frame and sash are protected against decay and termites with Bruce Preservative 5B in accordance with the recommendations of the E. L. Bruce Company. The toxic agent in Bruce Preservative gives positive protection against termites and a high resistance to decay, rendering the treated wood exceptionally durable.

The treatment used insures the absorption of 20 gallons of solution per thousand board feet of finished material and the retention of 6.25 pounds of toxic Beta Naphthol salts per thousand board feet.

Protection against moisture during construction and before painting and added protection thereafter is provided by the addition of a Water Repellent Compound to the solution.

The wood is not discolored and any customary finish can be applied.

Andersen Frame Corporation

ANDERSEN CASEMENT WINDOW

Outstanding Features



Worm Gear Sash Operator—Adjusts and automatically locks the sash in any position. Just turn the handle. Powerful and easy to operate. Works independently of the screen as shown above. Neat and attractive and does not interfere with drapes, shades or Venetian blinds. Details for installing Venetian blinds will be sent on request.



Bar Sash Operator—Works easily and smoothly. Holds sash securely in any position. This is a very satisfactory low priced operator.

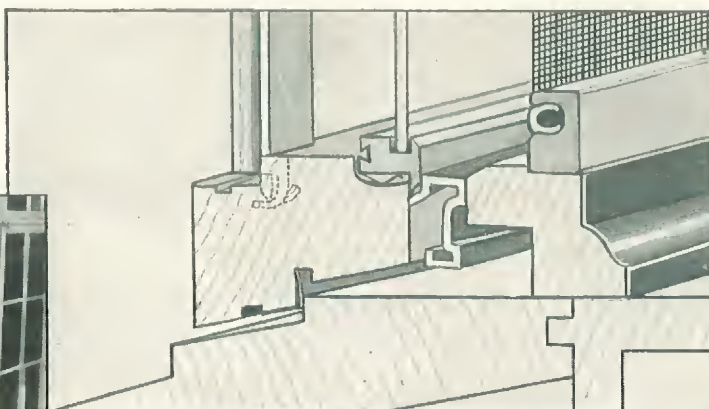


Wood Muntin Bars—New improved design combines strength with pleasing appearance. Illustration is $\frac{1}{8}$ actual size. Aluminum muntin bar shown below is $\frac{1}{2}$ actual size.



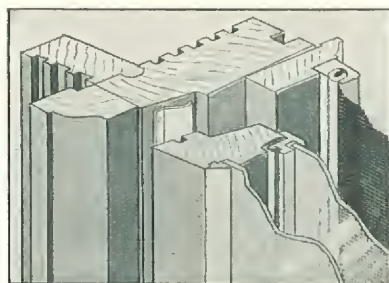
The Double Glass is easily and quickly slipped in place. It fits snugly on the inside of the casement sash and swings with it. It may be left in place the year round. It is easily removed for cleaning or summer storing.

Extension Hinges (see illustration below) permit the easy cleaning of outside glass from the inside.

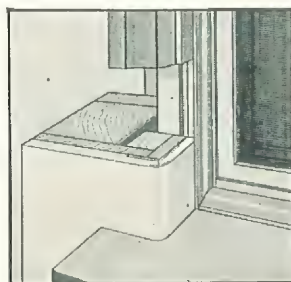


Section Through Sill and through sash at muntin bar. Note position of the operator channel and weatherstrip which is attached to bottom of sash. Note also how aluminum muntin bar is securely fastened. Also how removable double glass is held in place by the channel bar.

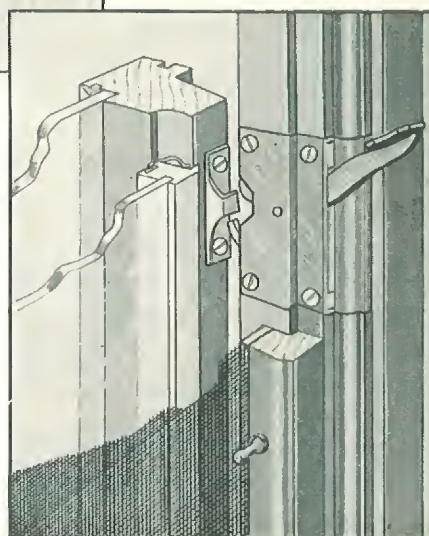
Screens—The aluminum frame screen shown in the illustration at left. Wood frame screen below. Note also aluminum screen in place on left side of illustration above. Also wood screen illustrations on page 6.



Section Through Jamb—Special design of sash and frame, eliminates sticking and binding. The frame is also specially designed for weathertight joining with wall in either frame or masonry construction. Note weatherstrip.



Frame and Trim are designed for either plaster reveal finish or wood casings. With plaster reveal finish, illustrated, the only additional trim required is the stool and apron.

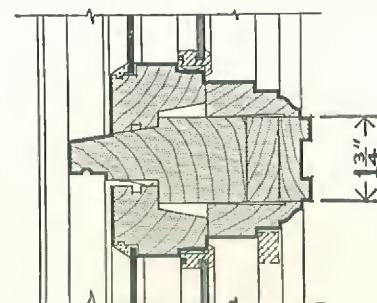
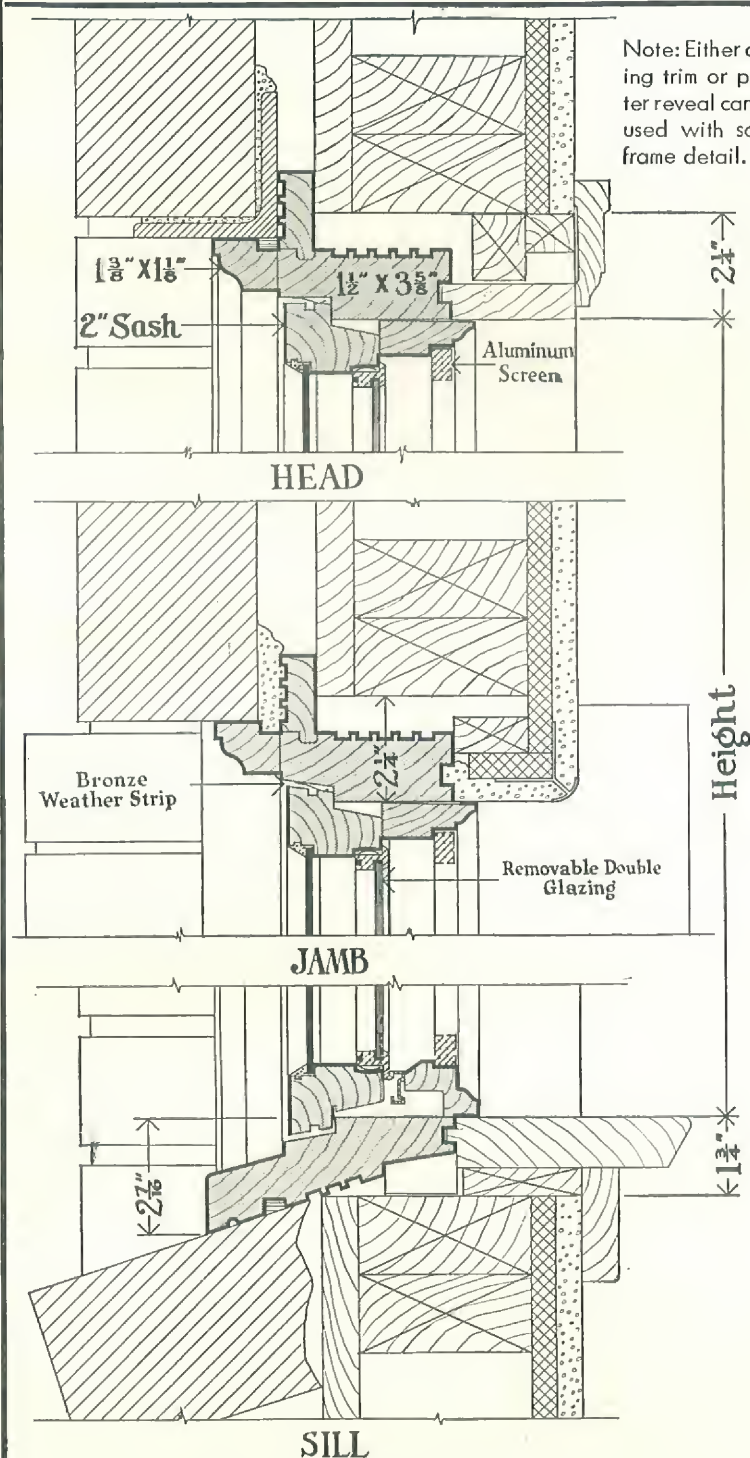


Cam and Lever Lock pulls the sash completely shut and locks it securely when closed without opening or removing the screen. It also forcibly ejects the sash when opened, making it easy to adjust the window with the sill operator. The removable air sealed, double storm glass is shown in place on the inside of the sash.

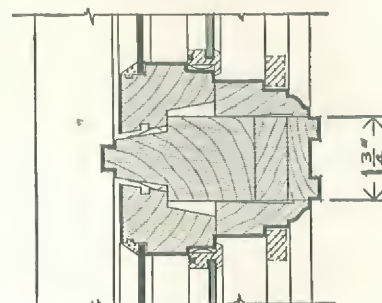
ANDERSEN CASEMENT WINDOW

Detail of Complete Unit

NOTE—This standard unit is used in all types of frame or masonry wall construction



TRANSOM



MULLION

NOTES

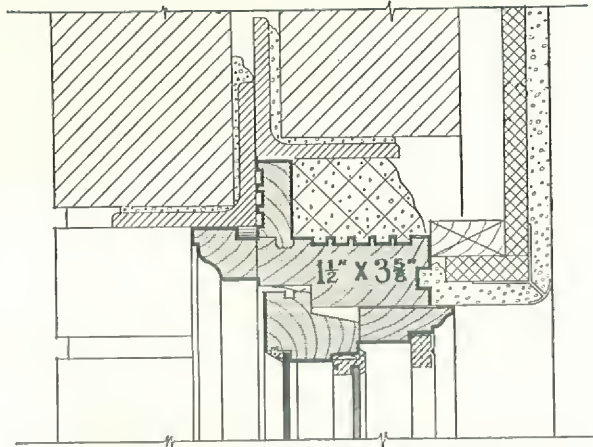
1. See TABLE OF SIZES on page 7 for unit arrangements, sash sizes and opening sizes.
2. EXTERIOR Moulding—Any Andersen brick moulding or casing may be substituted for the brick moulding shown or units can be furnished without exterior moulding on special order. When no exterior moulding is ordered, specify length of sill horns required.
3. All inside finish stops, mullion and transom inside casing as shown on this detail are furnished as part of the unit. These parts are furnished in clear Pine unless otherwise specified. These can be furnished in other woods at an extra charge.
4. Finish moulding with screen rabbet shown in sill detail is for swinging sash only. For stationary sash the same moulding as shown at head and jamb is used at the sill.
5. BRONZE WEATHERSTRIP as shown is furnished for all openings.
6. FOR CASING TRIM AT SIDES AND HEAD—Use extension jambs instead of plaster reveal as shown.
7. For full size details or details showing adaptation of standard unit to special requirements, see local millwork dealer or write Andersen Frame Corporation, Bayport, Minn.

Scale—Three Inches Equal One Foot.

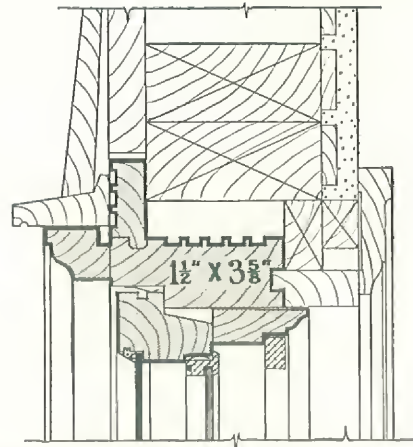
Patents Nos. 17,552, 1,648,712—Other Patents Pending.

ANDERSEN CASEMENT WINDOW

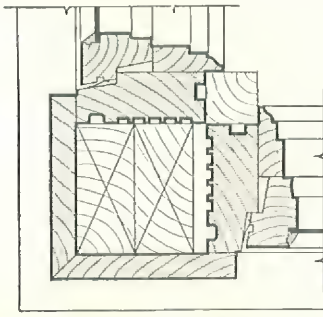
Special Adaptations



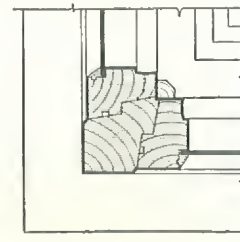
HEAD SECTION DETAIL, 1/4 SCALE — Standard unit in solid masonry wall with insulating lath and plaster applied to 3/8 in. furring strips. Either interior plaster reveal finish or wood jambs and casing trim can be used.



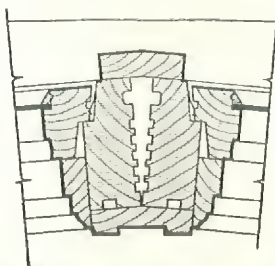
HEAD SECTION DETAIL, 1/4 SCALE — Standard unit in 2x4 frame wall. Either wood casing trim with extension jamb or plaster reveal finish can be used. Unit installed in similar manner for exterior stucco.



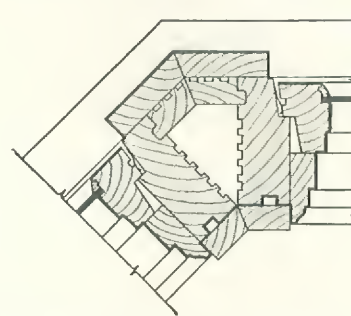
CORNER WINDOW DETAIL, 3/16 SCALE — Showing typical corner section for use where support is required above. Angle iron or I beam can be used in place of 2x4's. Exterior casings may be of metal or wood. Sash may be swinging or stationary.



CORNER SECTION, 3/16 SCALE — Use where load bearing members are not required at corner, showing special corner mullion post with stationary sash next to corner. Three inches between glass. The rest of the casement unit is the same as the standard detail shown on page 3.



RADIAL BAY WINDOW DETAIL, 3/16 SCALE — Showing section through mullion between sash, using standard straight sash with outside edge of sill and head staff bead cut to any radius. Furnished only on special order.



ANGLE BAY DETAIL, 3/16 SCALE — Showing section through typical angle mullion. All parts are standard stock design and construction except the exterior casing. The inside casing is not furnished as part of the unit.

Andersen Frame Corporation
ANDERSEN CASEMENT WINDOW
Typical Installations



Andersen Casements give added charm and beauty to the exterior of any home. They are well proportioned and graceful, yet sturdy in appearance. Note the effective use of stock size units in the residence above. The studio window is made from stock units with special segment head transom.



Above, stock transom units in a conservative modern type home. At right, a gable and living room window, unit 6638.

Andersen Casements are equally well suited to fine residence or summer cottage as shown above.



Above, a typical angle bay made up from stock units 8446 and 2416. See interior view on opposite page and detail on page 4.

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ANDERSEN CASEMENT WINDOW
Typical Installations



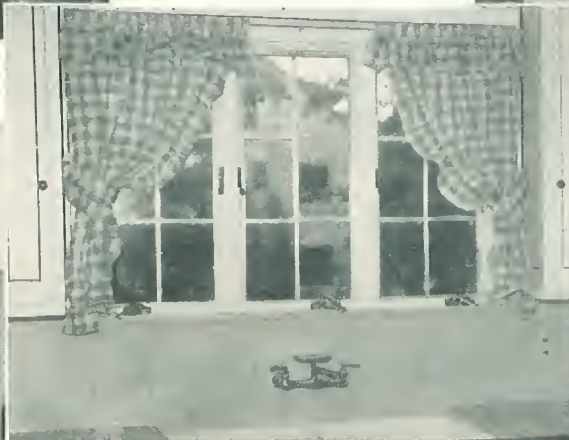
ABOVE—Leaded glass panels in standard size units. Insert shows a close-up of the large radial bay. See detail on page 4.

LEFT—Interior of radial bay, showing wood frame screen.

RIGHT—Angle bay with wood screens and bar sash operator.



BELOW—Typical modern style installation with corner window and horizontal muntin bars.



Standard unit 6336 over a kitchen sink. Unit 4326 is used where a narrower opening is required. Note worm gear sash operators.

BELOW—Andersen Casements are well suited to clubs and similar public buildings.



Nationally Distributed Through Lumber and Millwork Dealers

ANDERSEN CASEMENT WINDOW

Table of Sizes

Masonry Opening Moulding 2" wide	Masonry Opening Moulding 1 1/4" wide	Rough Studding Opening	Sash Opening	19"	23 1/4"	3'-7"	4'-2 1/4"	6'-10 1/4"	8'-6 1/4"	Masonry Opening Moulding 2" wide	Masonry Opening Moulding 1 1/4" wide	Rough Studding Opening	Sash Opening	3'-8 1/4"	4'-3 1/4"	Masonry Opening Moulding 2" wide	Masonry Opening Moulding 1 1/4" wide	Rough Studding Opening	Sash Opening
1212	2214	4224	6234	8244	10254	4214	6224	1212	2214	4224	6234	8244	10254	4214	6224	1212	2214	4224	6234
1313	2316	4326	6336	8346	10356	4316	6326	1313	2316	4326	6336	8346	10356	4316	6326	1313	2316	4326	6336
1414	2418	4428	6438	8448	10458	4418	6428	1414	2418	4428	6438	8448	10458	4418	6428	1414	2418	4428	6438
25110	45210	65310	85410	105510	25110	45210	65310	85410	105510	25110	45210	65310	85410	105510	25110	45210	65310	85410	105510
1413	2416	4426	6436	8446	10456	4416	6426	1413	2416	4426	6436	8446	10456	4416	6426	1413	2416	4426	6436
1514	2518	4528	6538	8548	10558	4518	6528	1514	2518	4528	6538	8548	10558	4518	6528	1514	2518	4528	6538
1513	2516	4526	6536	8546	10556	4516	6526	1513	2516	4526	6536	8546	10556	4516	6526	1513	2516	4526	6536
1614	2618	4628	6638	8648	10658	4618	6628	1614	2618	4628	6638	8648	10658	4618	6628	1614	2618	4628	6638
26110	46210	66310	86410	106510	26110	46210	66310	86410	106510	26110	46210	66310	86410	106510	26110	46210	66310	86410	106510
27110	47210	67310	87410	107510	27110	47210	67310	87410	107510	27110	47210	67310	87410	107510	27110	47210	67310	87410	107510

Circle top transom units can be used above any square head unit of same width. Standard transom bar is used between square head sash and circle sash.

CH-2 is furnished with standard aluminum or wooden muntin bar as specified. CH-4, CH-6 and CH-8 are furnished with zinc muntins.

NOTES

1. Mullion posts between all sash. No pairs of sash without mullion centers furnished.
2. Glass size 8"x12" standard except one light wide units which have 12"x12" glass.
3. Sash layout shown is standard. Same units with horizontal muntin bars only can be furnished when so specified. Sash can also be furnished with leaded glass of any design instead of with muntin bars.
4. Main sash may be either swinging or stationary. All swinging sash open out and may be hinged to swing either right or left. When ordering specify how many swinging sash in each unit and whether hinges are to be on right or left side looking in from outside.
5. All sizes shown are standard. Wider or higher units using standard sash can be furnished on order.

ANDERSEN NARROLINE WINDOW

Double Hung Master Frame No. 600

The Andersen NARROLINE Double Hung Window is furnished as a complete double hung window with modern narrow mullions and casings, yet it retains the time-tested counterbalancing principle to insure dependable and trouble-free sash operation throughout the life of the building. It is effectively weatherstripped and is exceptionally leakproof and weathertight.

CONSTRUCTION FEATURES

FRAME—A leakproof Andersen Master Frame of improved design. See detail on following page. All parts of the frame are treated with Bruce Preservative 5B and a Water Repellent Compound, the same as the Casement and Basement Window Units. See page 1 for complete description.

COUNTERBALANCING EQUIPMENT—After experiments with many different devices for operating the sash, the time tested principle of counterbalancing weights has been retained. A specially designed flat weight with a pulley wheel permits the use of only one weight on each side in place of two. Standard equipment includes weights, sash chain cut to length and with fasteners attached and Andersen Noiseless Pulleys. The sash chain has short, heavy links especially designed for quiet operation. Tests have proved that dependable and trouble-free sash operation is assured for more than an ordinary lifetime.

FITTED SASH AND SCREENS—The NARROLINE Unit takes standard double hung sash, screens, and storm sash customarily furnished by millwork dealers. These can be obtained completely fitted and ready to install.

HARDWARE—Storm sash and screen hardware is optional equipment and includes the Andersen Automatic Storm Sash Operator,

hangers for both storm sash and screens and hooks for the screen. Any standard type of hardware can also be used.

EASY TO INSTALL—The NARROLINE is simple in design and construction and is exceptionally easy to assemble and install.

WEATHERSTRIPS—The NARROLINE Window Unit is completely weatherstripped at the sides, head, check rail and bottom rail with Andersen Bronze Weatherstrips. A standard test made in July, 1935 at the University of Wisconsin by D. W. Nelson, Engineer in charge of Air Leakage Tests, shows that Andersen Weatherstrips for double hung windows reduce air leakage 86.2%.

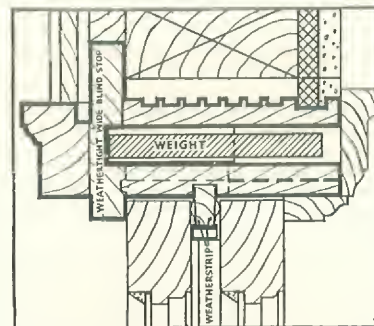
Comparative figures for air leakage in cubic feet per hour per foot of sash perimeter with a wind velocity of 15 miles per hour are as follows:

	Cubic Feet
Unweatherstripped window.....	51.5
Same with Andersen Weatherstrips.....	7.1
* Average for weatherstripped double hung windows....	16.0

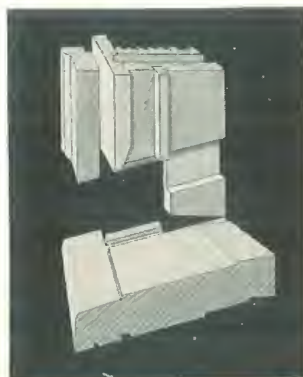
*From the Journal of American Society of Heating & Ventilating Engineers.



Andersen Weatherstripped Parting Stop in side jamb showing spring bronze metal on wood stop and bronze check rail block.



Inside casing can be as narrow as 2½ inches. Exterior moulding is suitable for siding, stucco or brick. Any other moulding or casing can be substituted.



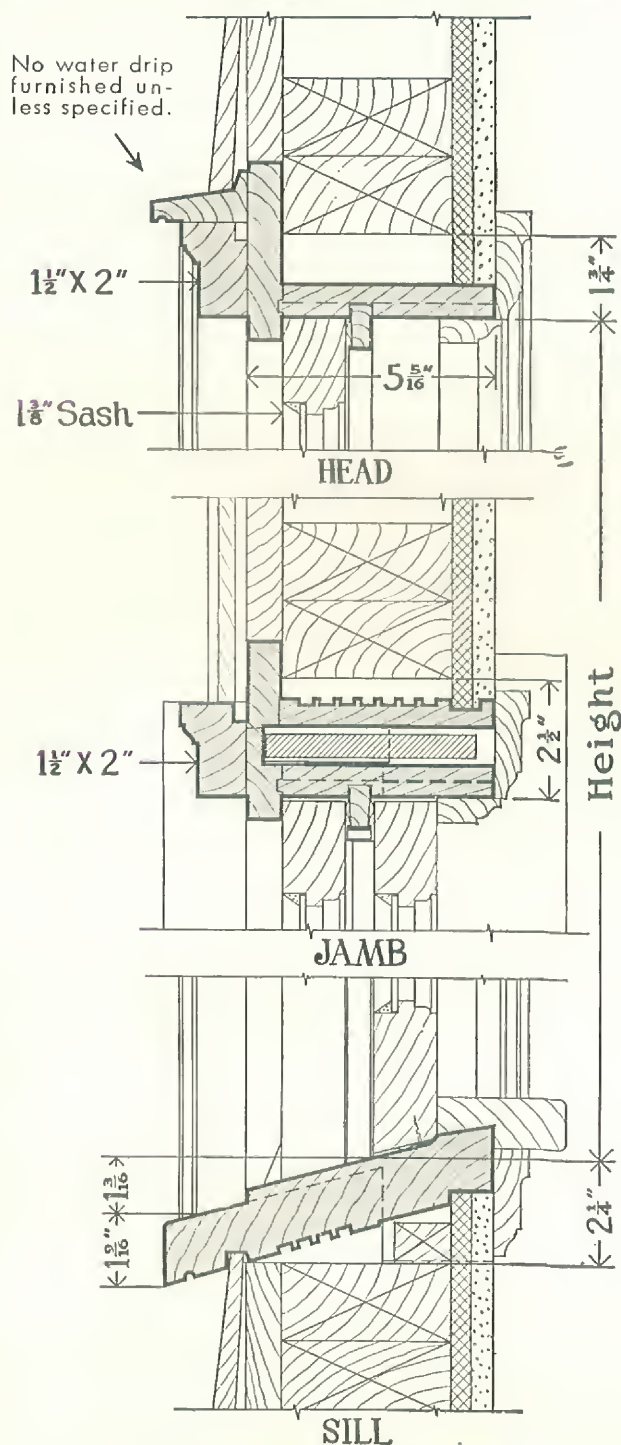
The famous ANDERSEN LEAKPROOF LOCKED SILL JOINT with steep sill slope.



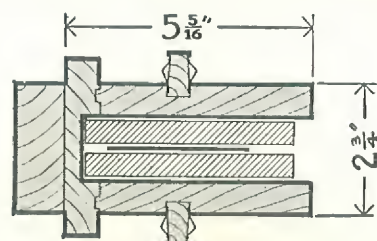
Nationally Distributed Through Lumber and Millwork Dealers

ANDERSEN NARROLINE WINDOW

Double Hung Master Frame No. 600



SCALE—Three Inches Equal One Foot
Patents Allowed and Pending



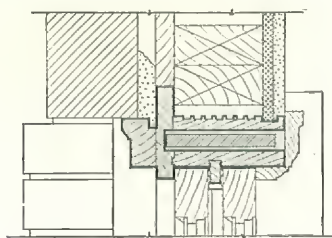
MULLION

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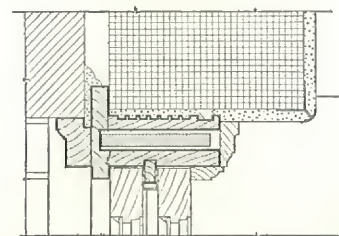
1. Water drip No. 923 shown on head brick moulding furnished only when specified.
2. Andersen Weatherstrip for complete opening, including bronze strip for check rail and bottom rail furnished as standard equipment.
3. Special weights and sash chain cut to correct length with fasteners furnished for each opening.
4. Exterior moulding No. 908, shown on detail, is standard on all frames. Any other Andersen brick moulding or casing furnished on special order.
5. All parts except inside sash run completely primed with aluminum paint.
6. Available in all standard frame sizes.

WIDTHS—Every 2 in. from 1'-4" to 4'-4" inclusive and in addition 2'-1", 2'-5", 2'-7", and 2'-9".

HEIGHTS—Every 4 in. from 2'-6" to 7'-2" inclusive and in addition 3'-0" and 4'-0".



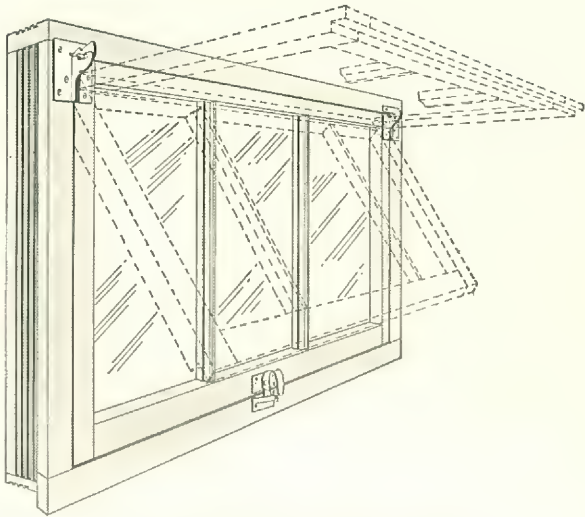
Detail 3/8 size showing frame No. 600 in brick veneer wall. Moulding 1 1/2" thick permits adequate space between brick and sheathing with same jamb width.



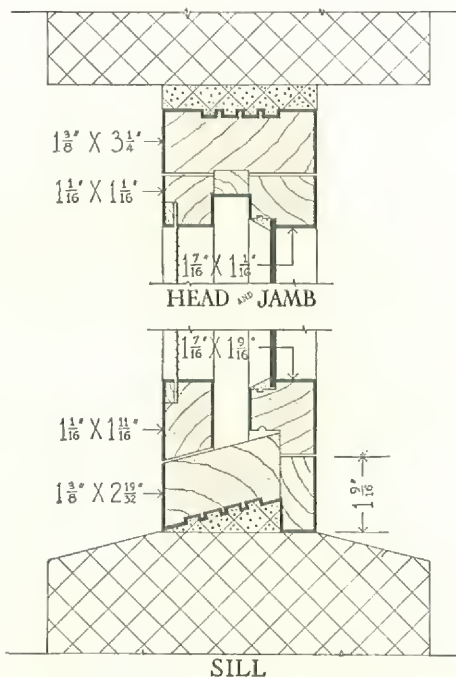
Same frame in masonry wall with plaster reveal finish. Extension jamb and casing trim may be used in the regular way.

ANDERSEN BASEMENT WINDOW

A Complete Unit Including FRAME • SASH • HARDWARE • SCREEN



FROM THE INSIDE—Note two open positions in which sash is automatically held. Sash is easily removed when open by simply lifting it out of the frame. The strong lock holds the sash tightly in the closed position.



Scale—Three Inches Equal One Foot.

FRAME—Manufactured of Clear Pine. The design of the frame makes it suitable for any wall. Mortar clinch grooves anchor the frame and eliminate leaking of water, dust, and air around the frame. The frame is set up and all hardware is applied at the factory.

SASH—Glazed and Factory Fitted. Stiles and Rails are designed for sturdiness and to give maximum light. Bottom rail is rabbetted to make watertight joint between sash and sill. The sash is hung in frame at factory.

SCREEN—Factory Fitted, 16 mesh Aluminum Screen Cloth. Installed in frame at factory.

HARDWARE—Hinges automatically hold sash securely in two open positions without rattling. Cam lock closes sash tightly; also automatically ejects it for easy opening. Special inside screen fasteners can also be used for storm sash. All hardware parts are cadmium plated.

TERMITE AND DECAY PROTECTION—All wood parts of frame, sash, and screen are protected against decay, termites, and moisture absorption with Bruce Preservative No. 5B with the addition of a Water Repellent Compound in accordance with recommendations of the E. L. Bruce Company.

The treatment used is that fully described on page 1 under the heading "Treated Wood." The wood is not discolored and any customary finish can be applied over it.

The toxic agent in the preservative gives protection against termites and resistance to decay, and the water repellent compound gives protection against moisture during construction.

PACKING—The complete assembled unit is shipped in a carton with double protection for the glass.

STANDARD SIZES

Glass Sizes		Masonry Opening Size
8x12 in.	Two Light	21 x17 3/8 in.
10x12 in.	Two Light	25 x17 3/8 in.
10x16 in.	Two Light	25 x21 3/8 in.
12x16 in.	Two Light	29 x21 3/8 in.
12x18 in.	Two Light	29 x23 3/8 in.
12x20 in.	Two Light	29 x25 3/8 in.
8x10 in.	Three Light	29 1/4 x15 3/8 in.
8x12 in.	Three Light	29 1/4 x17 3/8 in.
9x10 in.	Three Light	32 1/4 x15 3/8 in.
9x12 in.	Three Light	32 1/4 x17 3/8 in.
9x18 in.	Three Light	32 1/4 x23 3/8 in.
10x12 in.	Three Light	35 1/4 x17 3/8 in.
10x14 in.	Three Light	35 1/4 x19 3/8 in.
10x16 in.	Three Light	35 1/4 x21 3/8 in.
10x18 in.	Three Light	35 1/4 x23 3/8 in.
10x20 in.	Three Light	35 1/4 x25 3/8 in.
12x18 in.	Three Light	41 1/4 x23 3/8 in.

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